

METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR
CLUSTER WORKLOAD DISTRIBUTION

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Abstract of the Disclosure

Methods, systems and computer program products provide communications with a plurality of application instances using a plurality of communication protocol stacks and a single Internet Protocol (IP) address. A stack is established as a routing stack associated with the single IP address. Other stacks which are associated with the single IP address are defined as candidate target stacks and an identification of candidate target stacks and the routing stack is distributed to the stacks. The routing stack is notified when an application associated with a candidate target stack listens to a port of the IP address to establish a current actual target stack. A request to establish a connection to the IP address and the port of the IP address is received and a routing table entry corresponding to the current actual target stack is created to provide a routing path from the routing stack to the current actual target stack. Communications to the port of the IP address received by the routing stack are routed based on the routing table.